Mid-Columbia Salmon Recovery Region Plan¹



VISION

Yakima Basin communities have restored the Yakima River basin sufficiently to support self-sustaining and harvestable populations of indigenous fish and wildlife while enhancing the existing customs, cultures, and economies in the basin. Decisions that continuously improve the river basin ecosystems are made in an open and cooperative process that respects different points of view and varied statutory responsibilities and benefits current and future generations

GOAL

Ensure long-term persistence of viable populations of naturally produced steelhead and bull trout across their native range

The Board's vision that implementing the plan will be inclusive, transparent, collaborative, cooperative, and voluntary, is borne of the conviction that only a process based on these attributes can be successful.

YAKIMA SUBBASIN FISH AND WILDLIFE PLANNING BOARD



Plan Timeframe 10-30 years



Estimated Cost \$160 million



Actions Identified to Implement Plan 153



Status Habitat portion of plan submitted to NMFS/USFWS 10/2005

Human **Population** 431,700

Counties Benton, Kittitas, Yakima, parts of Chelan and Klickitat

Treaty Tribes Yakama Nation **Listed Fish** Steelhead and bull trout²

Regional Recovery Organization

Yakima Subbasin Fish and Wildlife Planning Board

MAJOR FACTORS LIMITING RECOVERY

- ▶ Hydropower system mortality on Columbia River
- Reduced stream flows in tributaries
- ▶ Impaired passage in tributaries
- Excessive sediment
- Degraded water quality
- ▶ Altered channel morphology
- Degraded riparian habitat

KEY ACTIONS RECOMMENDED TO RECOVER FISH

January 2006 to June 2007

- Improve fish passage
- ▶ Restore stream flows
- Restore habitat
- ▶ Reintroduce indigenous species
- Assess surface-ground-water connections
- Evaluate rainbow trout-steelhead interactions

Long Term

- ▶ Protect areas with high ecological integrity and natural ecosystem processes
- Maintain connectivity throughout range of listed fish
- Restore and maintain suitable stream flows
- Protect and restore water quality
- Monitor effectiveness of actions



¹ All H recovery plan integration is underway, including focus on out-of-sub-basin impacts. This process, involving the NMFS, Regional Board, WDFW, and GSRO is expected to be complete no later than June 2006. Roll up of entire ESU (Oregon portions) underway.

² USFWS previously published a bull trout recovery plan (2006). The status of bull trout is currently under review and is expected to be complete by early 2006. At that time, USFWS will work with the Regional Board, WDFW, GSRO to incorporate elements of the State's strategy and the Board's plan into the federal plan.





Mid-Columbia Region Steelhead **Evolutionarily Significant Unit (ESU)** and Context Area

ESU in Washington

Major Population Group (MPG)

In ESU, Not in Plan

ESU in Oregon

Steelhead Spawner Abundance

Population		Present	Goal	
Satus	454			1,000
Toppenish	549			1,000
Naches	412			1,500
Upper Yakima	83	_		2,250
Total	1,498			5,750

5,750 (100%) 1 BOX = 1%

Total Spawner Abundance Goal

This is the number of adults needed on the spawning grounds to achieve recovery. Wherever possible it is expressed in natural spawner numbers.

Total Spawner Abundance Present 1,498 (26% of Goal)

This is expressed as an average from 1993 to 2004.

Steelhead Productivity

Population		Present	Goal	
Satus	1.0			1.3
Toppenish	.6			1.3
Naches	.6			1.2
Upper Yakima	.6			1.2

Productivity: Population growth rate. This is how many fish return for each fish that spawns. A population must have productivity greater than 1 to increase over time.





Coleman Creek Fish Barrier Removal and Bridge Installation



Steelhead Yakima MPG Key Actions ▶ Improve habitat in lower Satus Creek Mid-Columbia ▶ Improve floodplain/channel in Satus **STEELHEAD** Creek next to US 97 Oncorhynchus mykiss ▶ Improve grazing management Salmon Recovery in Satus Creek Live 4-7+ years; typically ▶ Restore passage to Shands Creek and spend 1-3 years in ocean Region provide passage and screens on Simcoe Creek before returning in late ▶ Expand forest road closures in Satus Yakama Nation Steelhead Kelt summer/early fall to spawn; **Conditioning Project** and Toppenish Creek watersheds most of the Yakima Basin fish ▶ Improve access upstream from spend winter in the Yakima River and spawn in Toppenish Creek agricultural areas **ESU Boundary** tributaries in late March ▶ Reduce diversions from Toppenish to mid May. and Simcoe Creeks Major Population Group (MPG) ▶ Restore rearing habitat in lower Toppenish and Simcoe Creeks and improve rearing habitat in upper Yakima Population ▶ Improve flow in lower Naches River In ESU, not in Plan; Protect and restore habitat in lower **UPPER YAKIMA** NMFS Doing Recovery Plan and upper Naches In ESU, Covered by ▶ Restore population range in upper Snake River Recovery Plan Tieton River spawning areas ▶ Improve juvenile migration past Roza Dam **Priority Habitat** ▶ Improve understanding of relations of resident 9 anadromous forms in upper Yakima NACHES **Primary Population** ▶ Respond to threats from human OYAKIMA population increases and Status To Be Determined development in upper Yakima 9 TOPPENISH RICHLAND SATUS 9 In ESU, Covered State Boundary by Snake River MILES Recovery In ESU, not Plan in Plan; NMFS Doing Recovery DATA SOURCE: NOAA FISHERIES AND YAKIMA SUB-BASIN

FISH AND WILDLIFE PLANNING BOARD BOARD

Plan